

FIG. 1

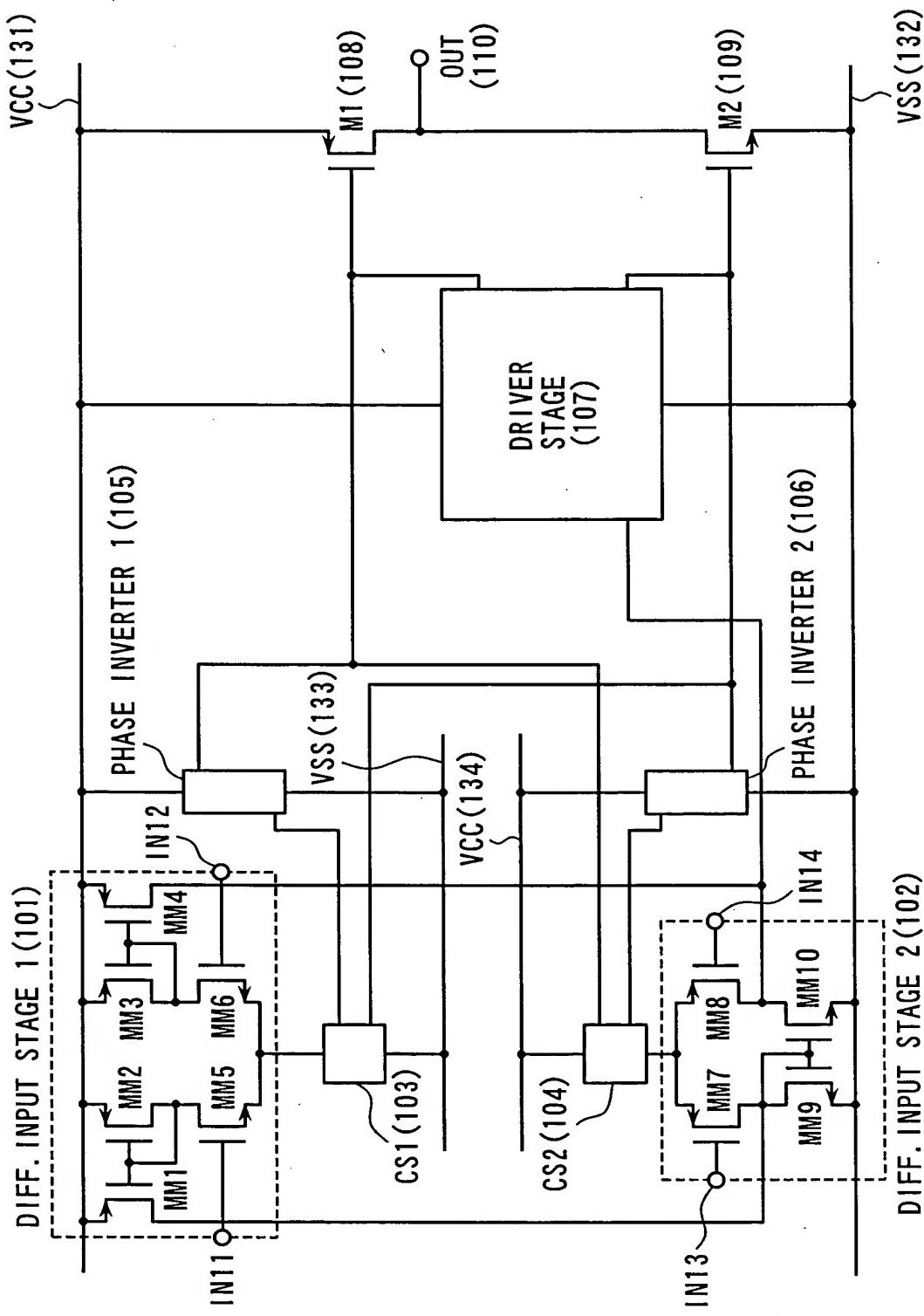
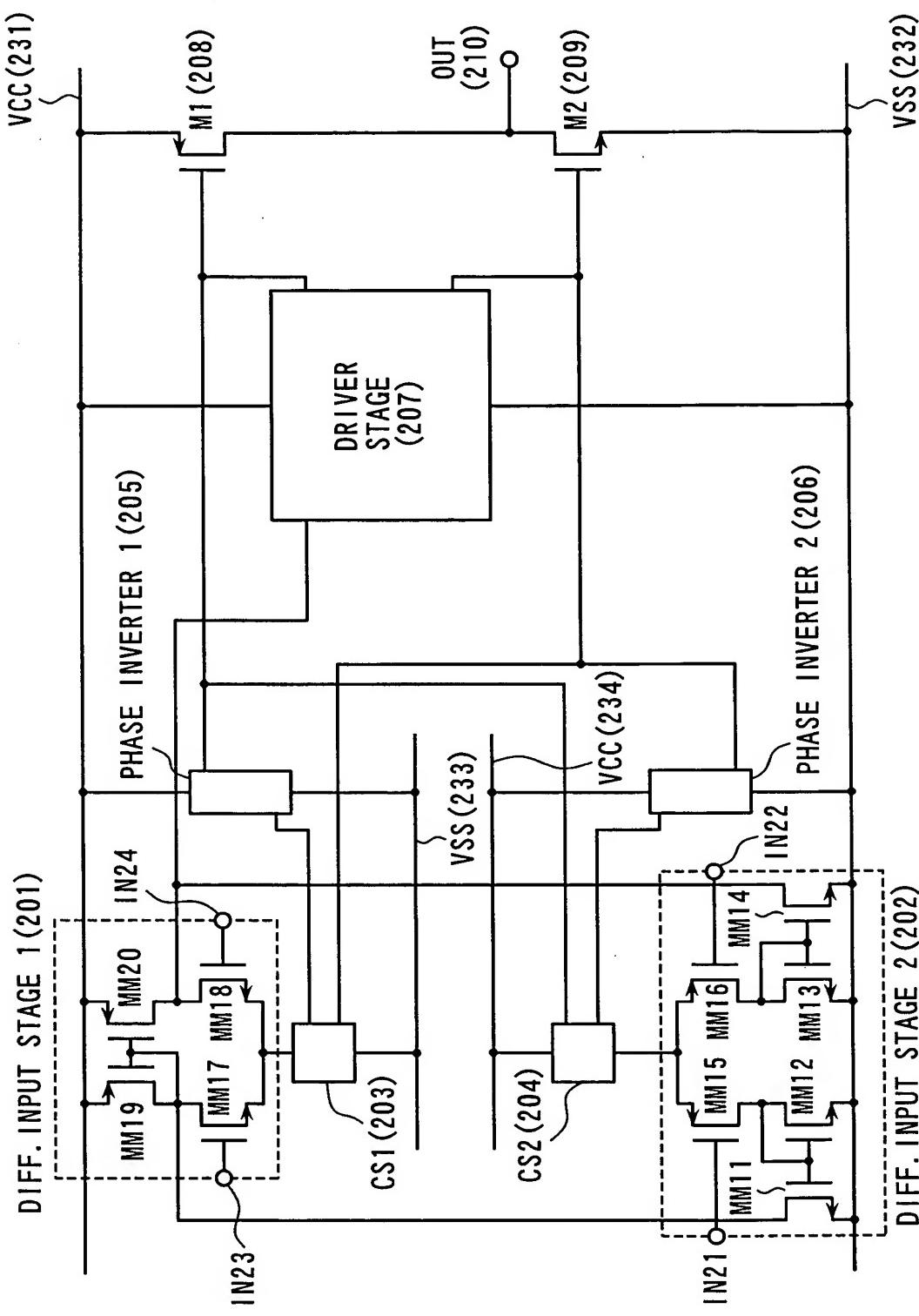


FIG. 2



3 / 2 1

FIG. 3

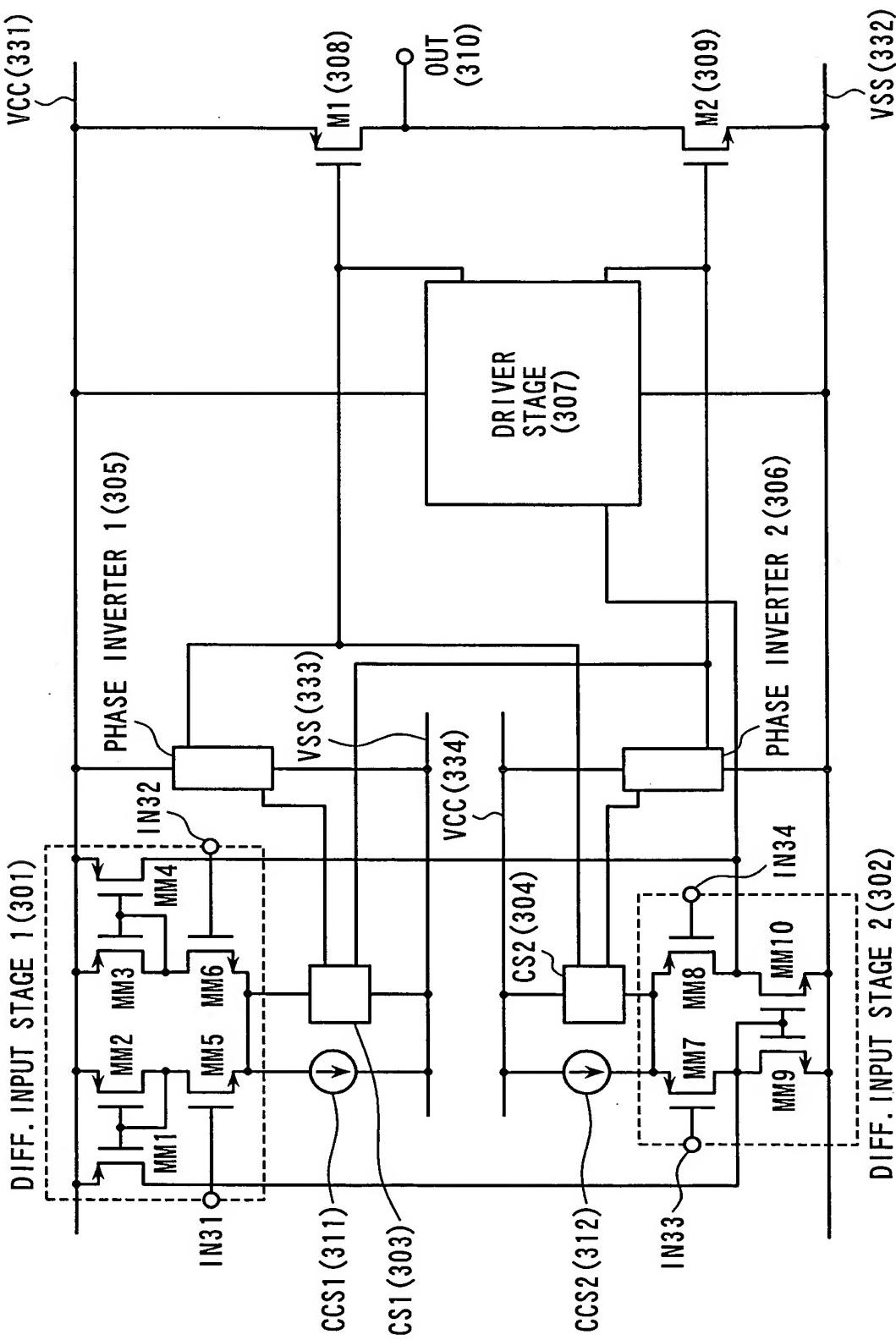


FIG. 4

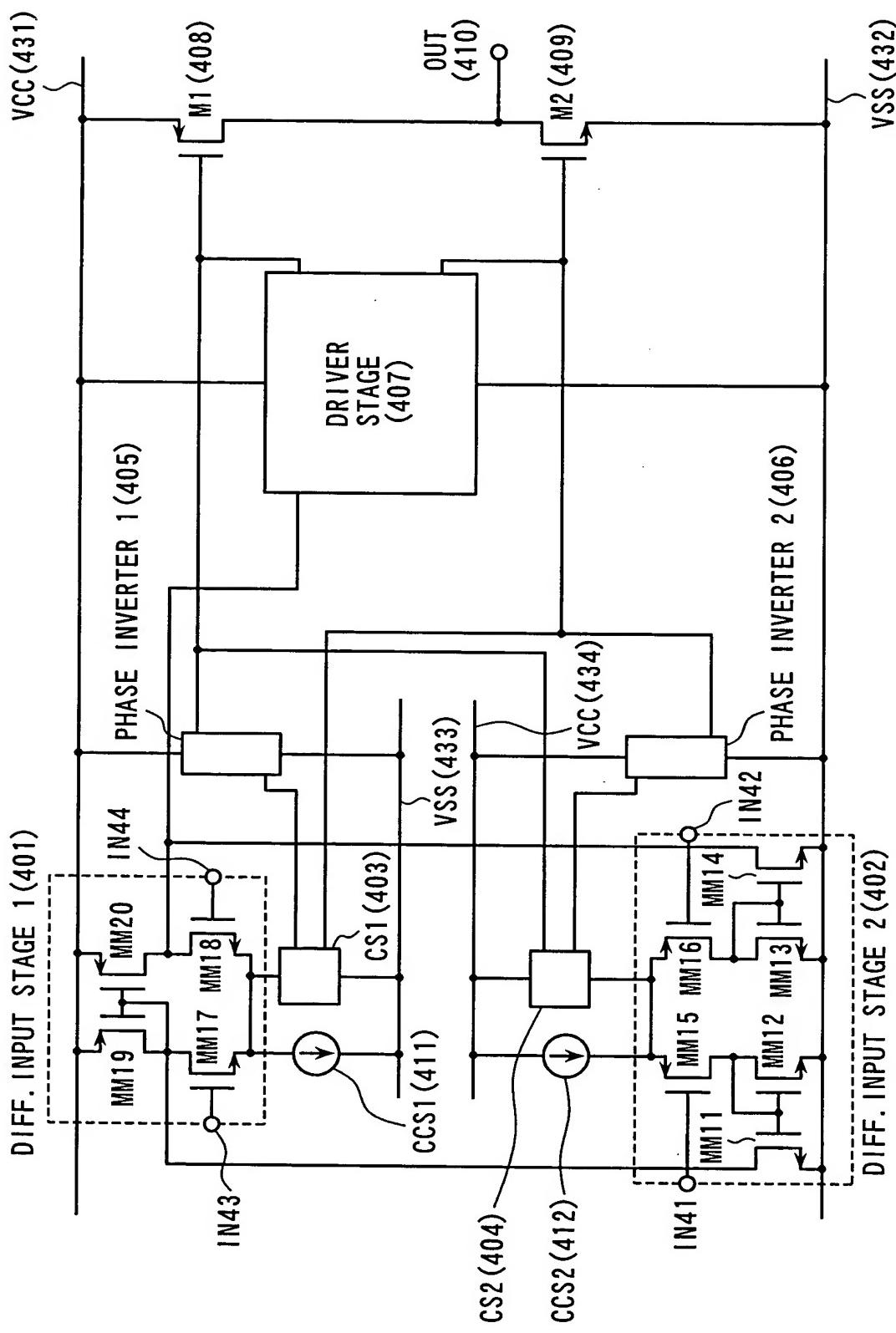


FIG. 5

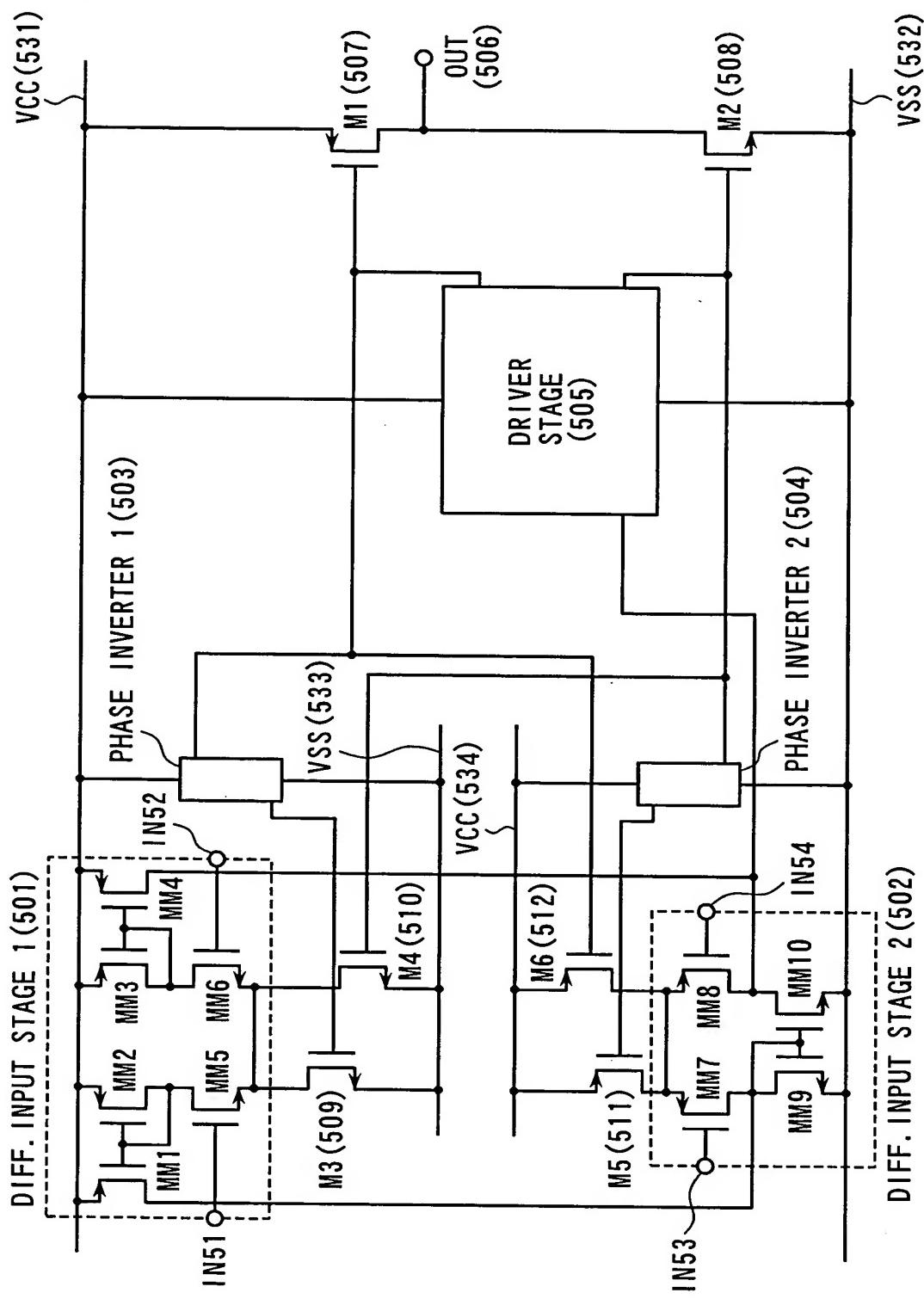


FIG. 6

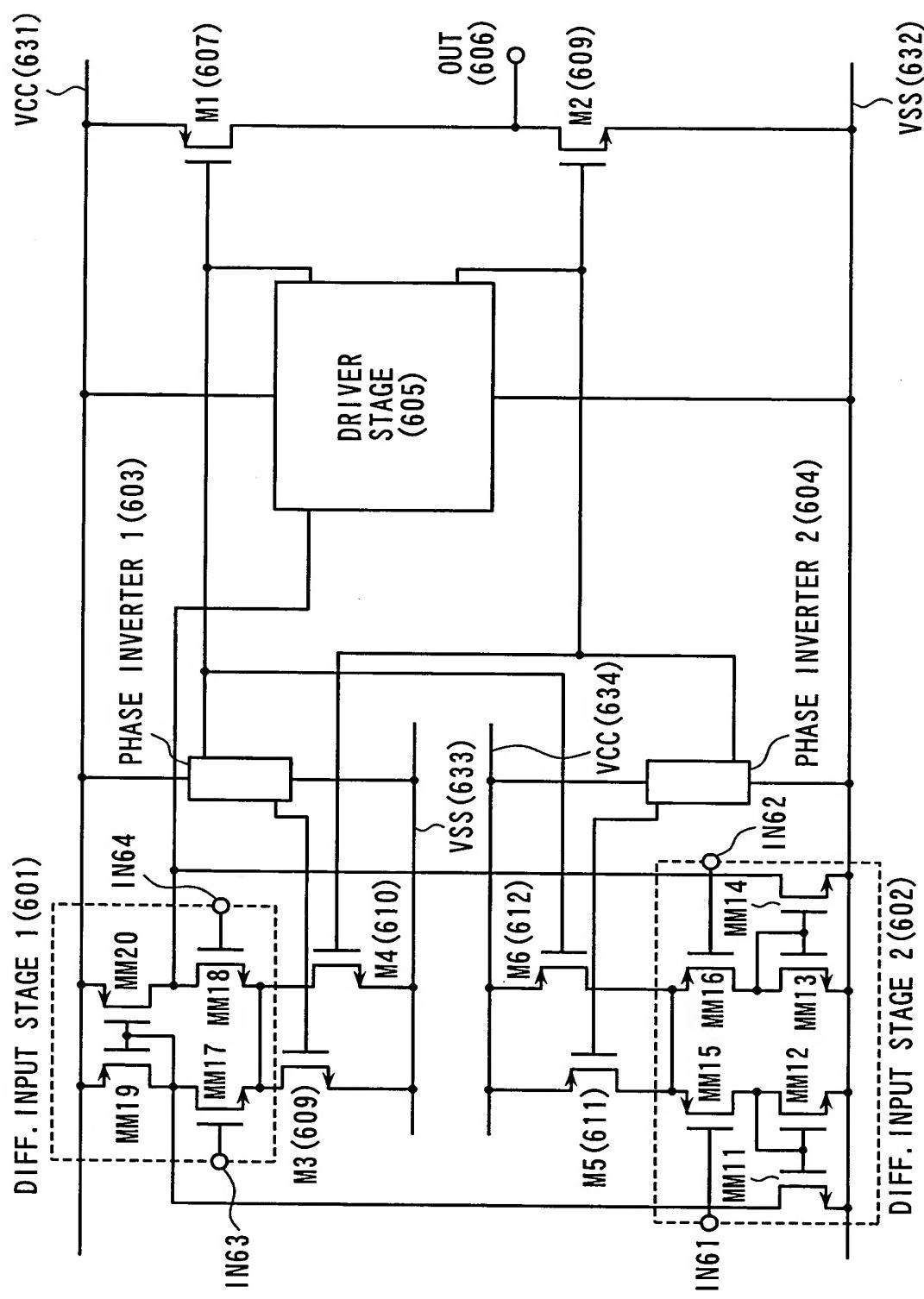


FIG. 7

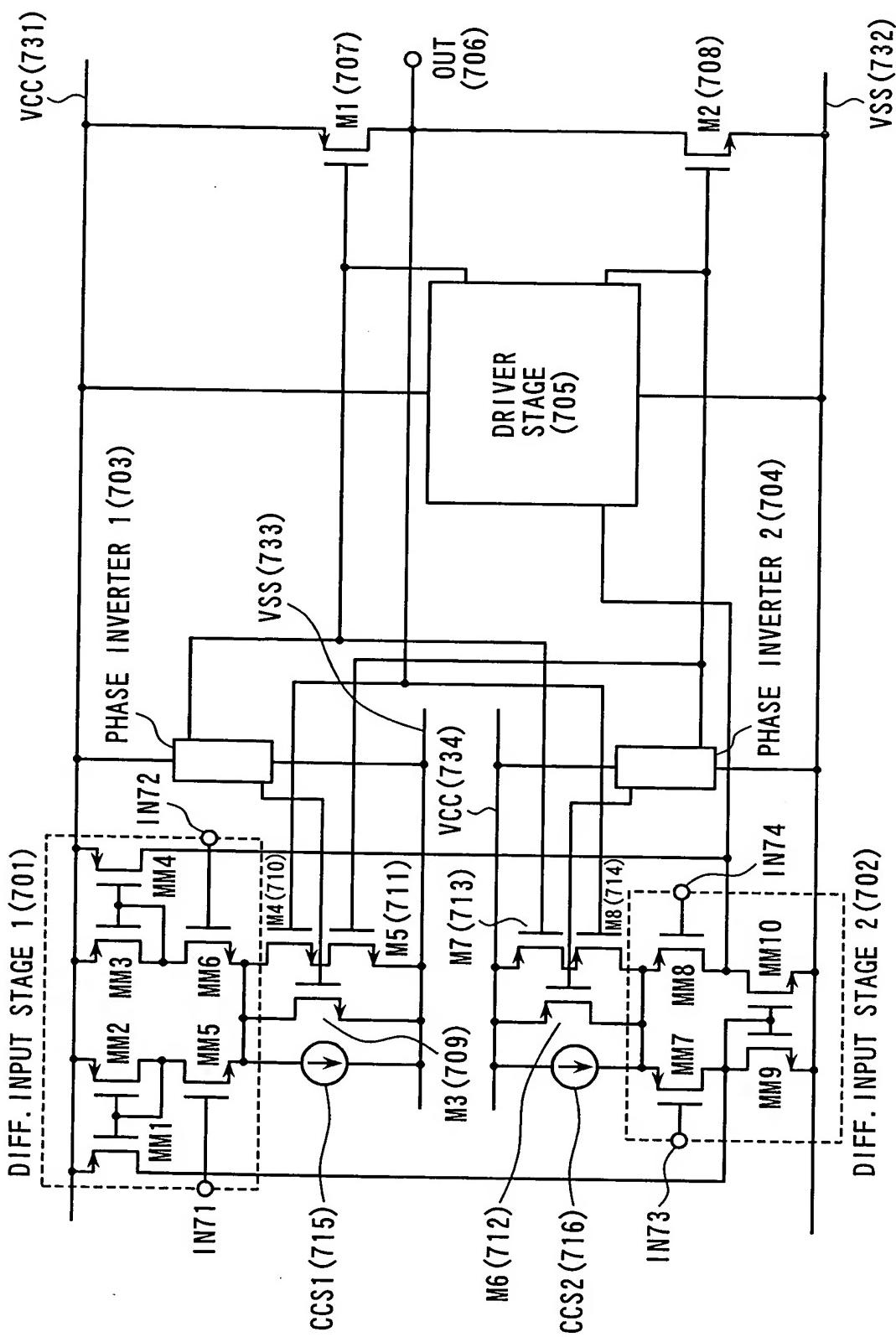


FIG. 8

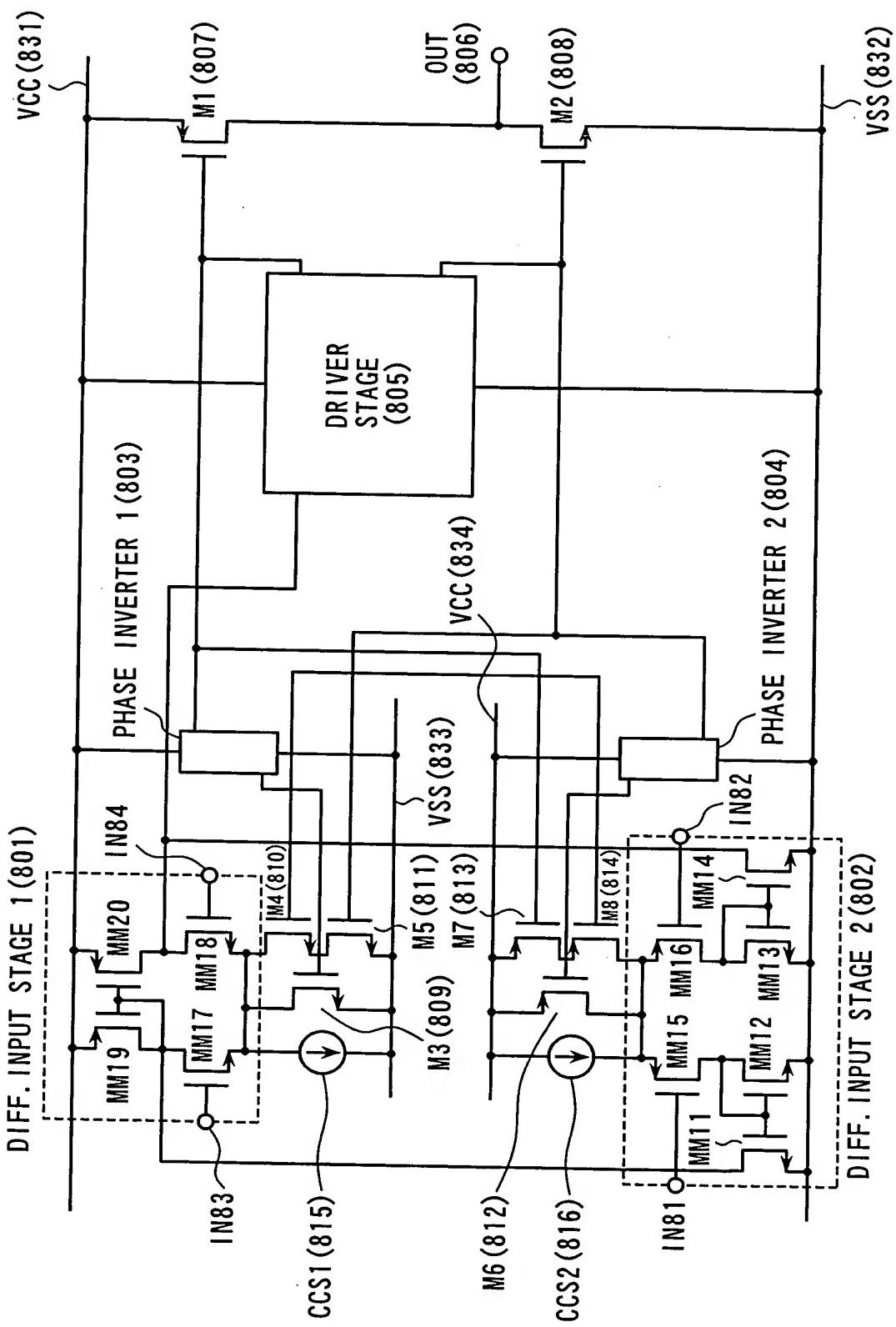


FIG. 9

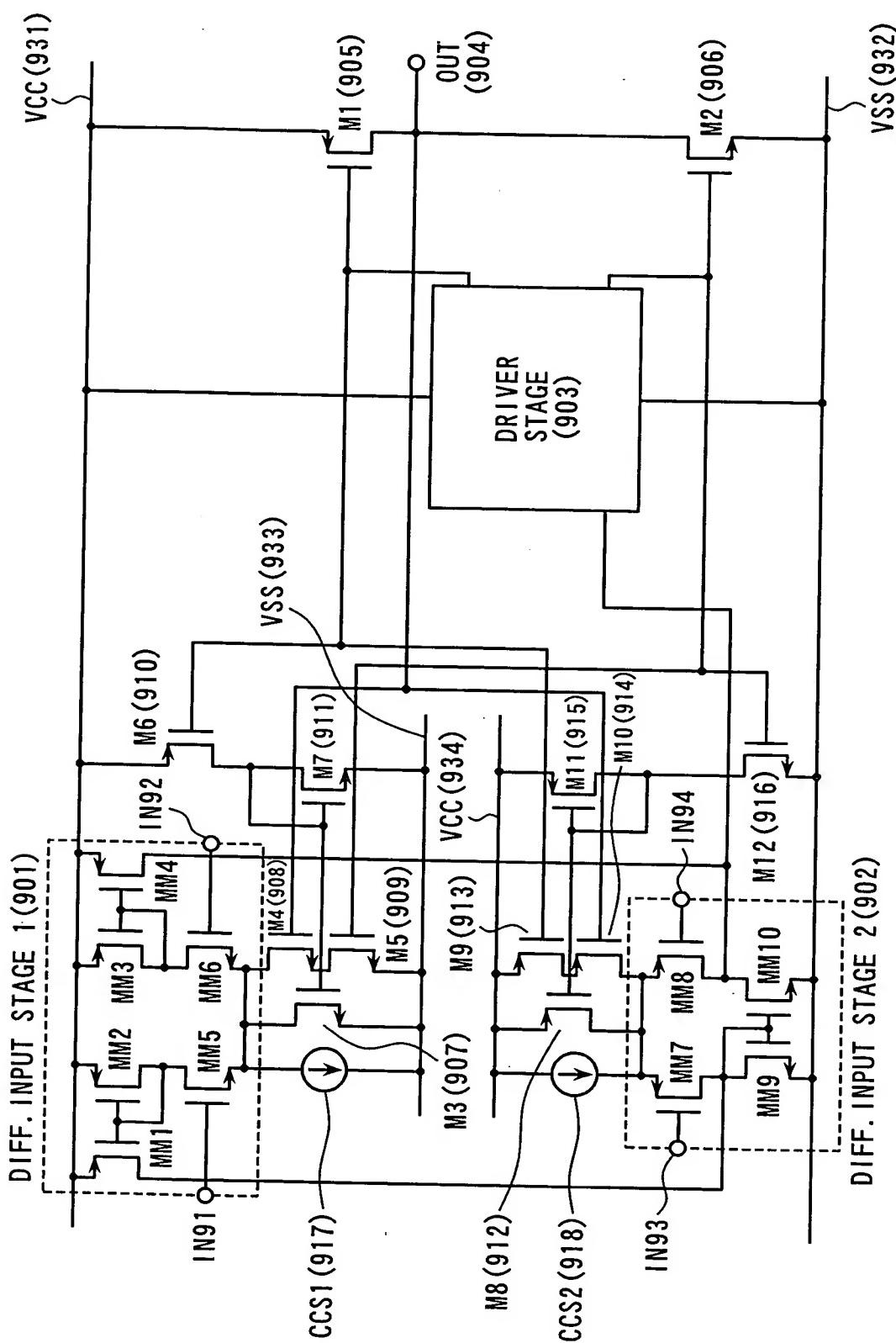


FIG. 10

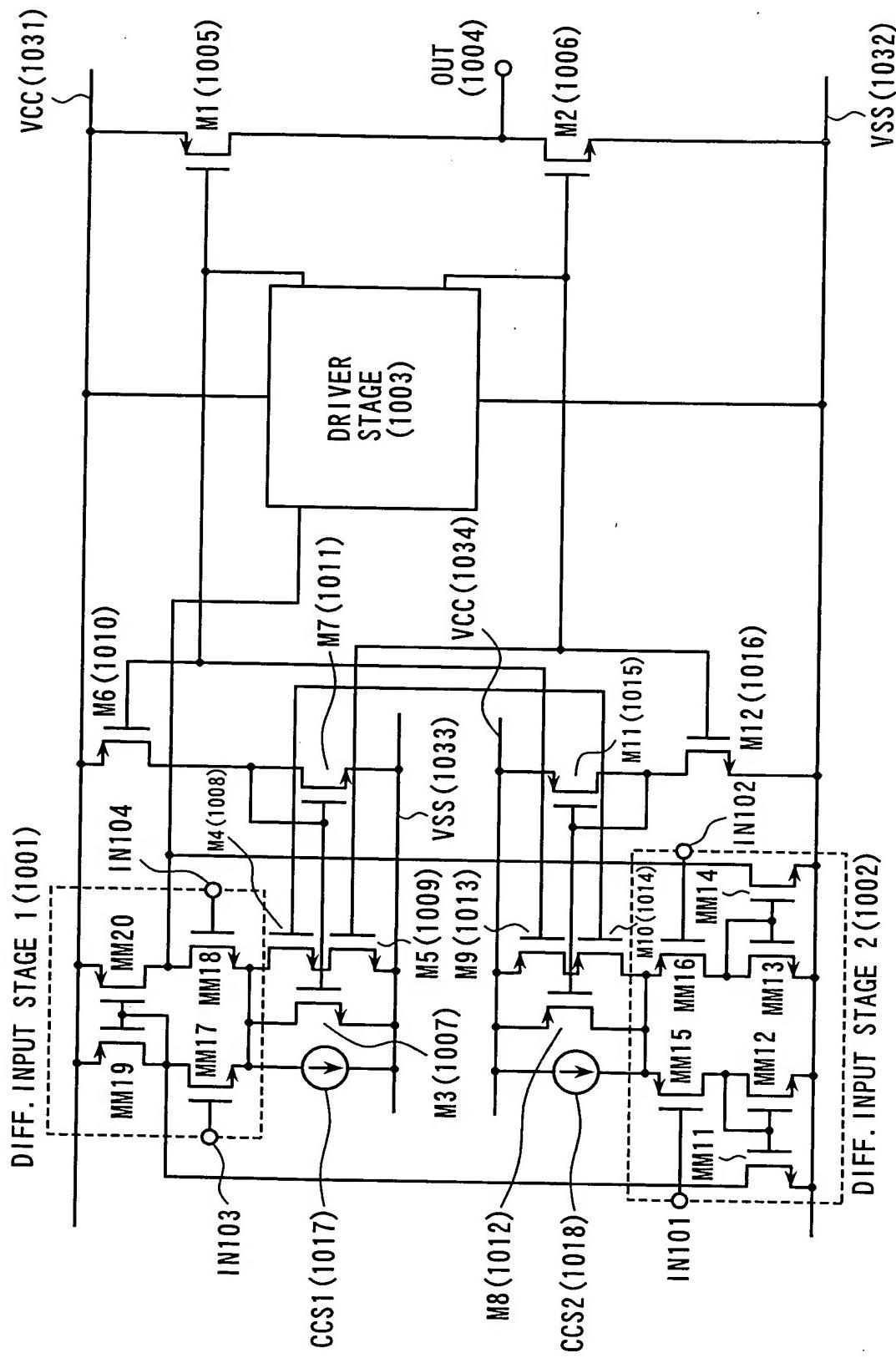


FIG. 11

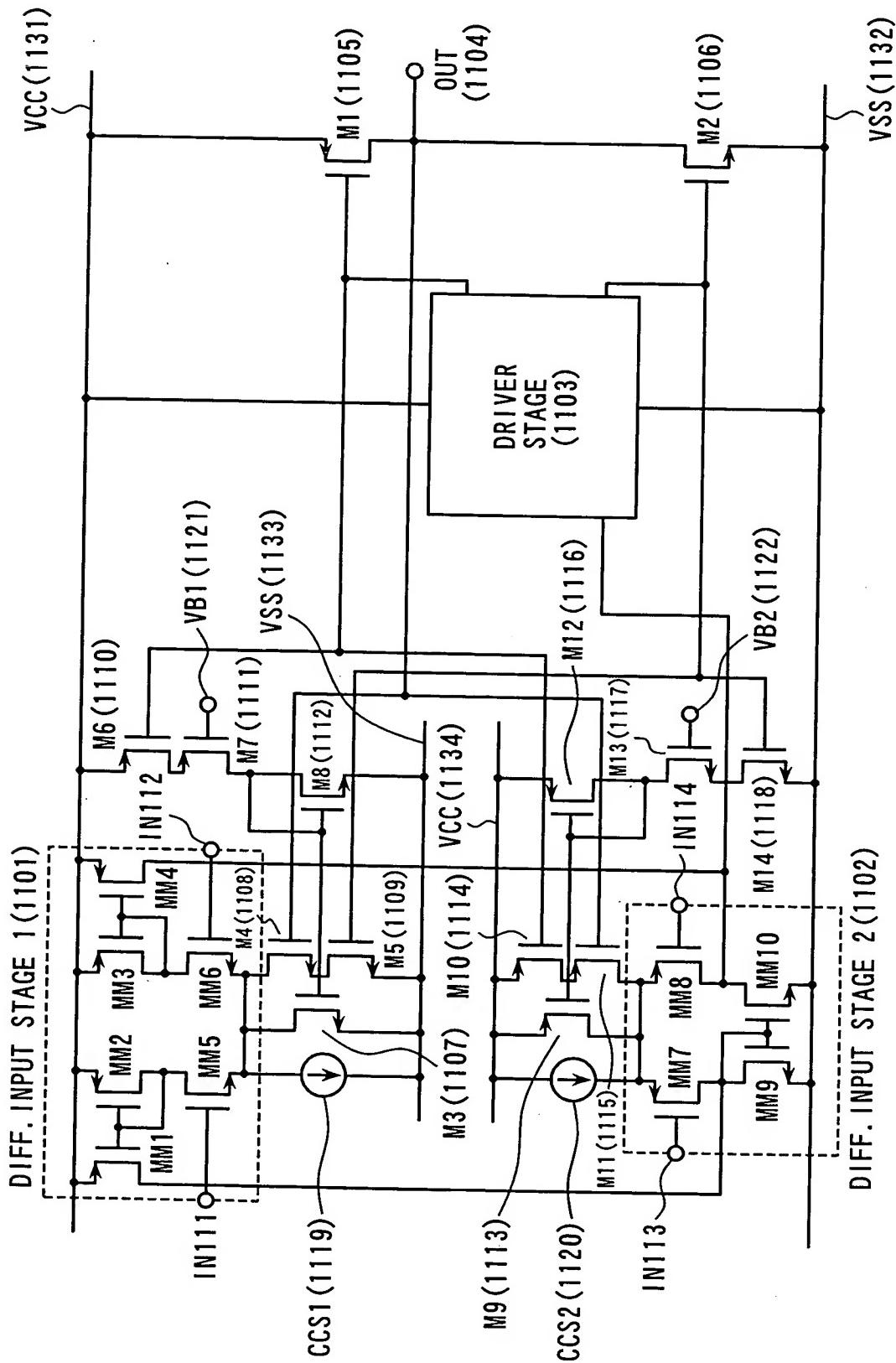


FIG. 12

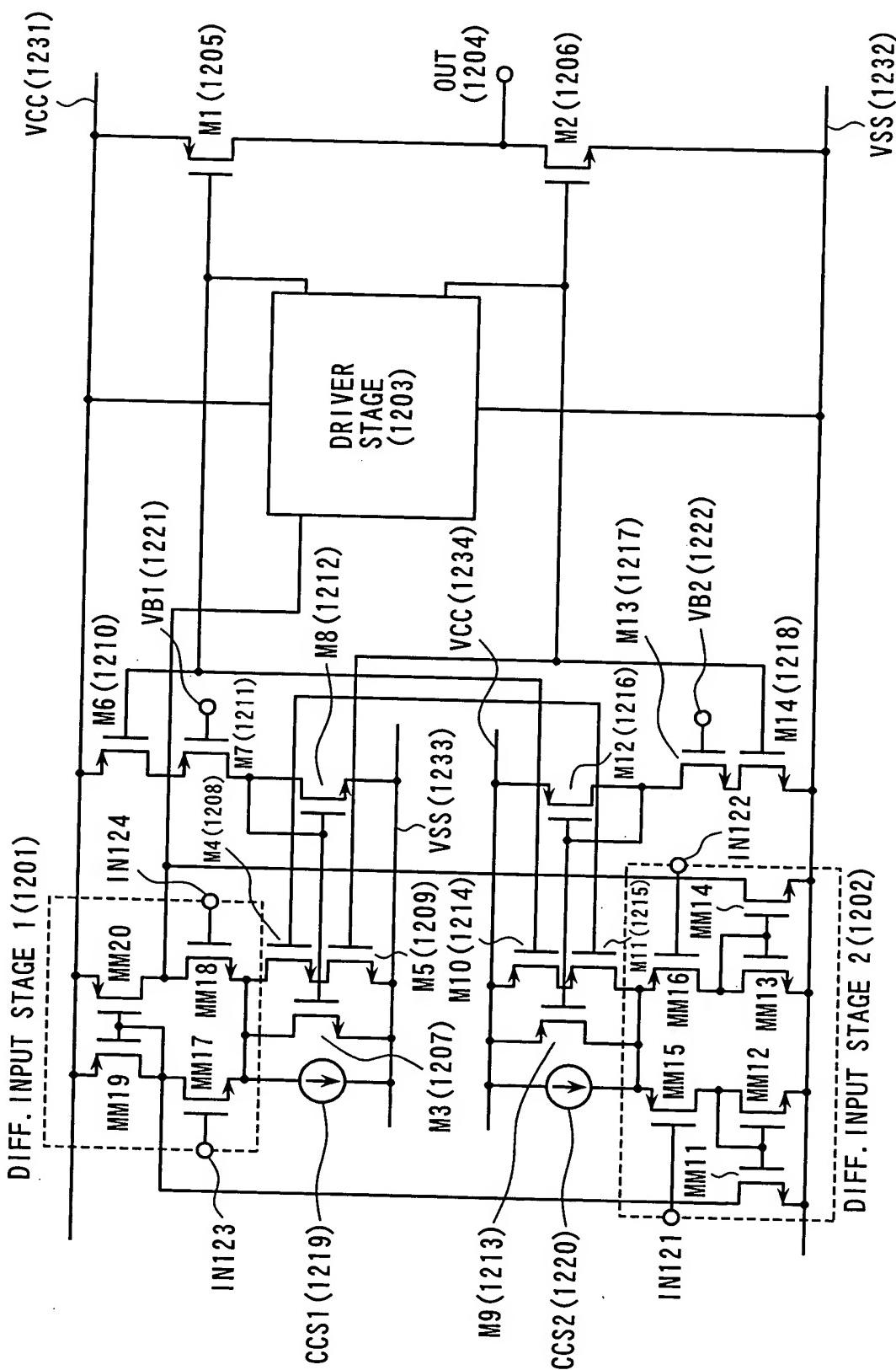


FIG. 13

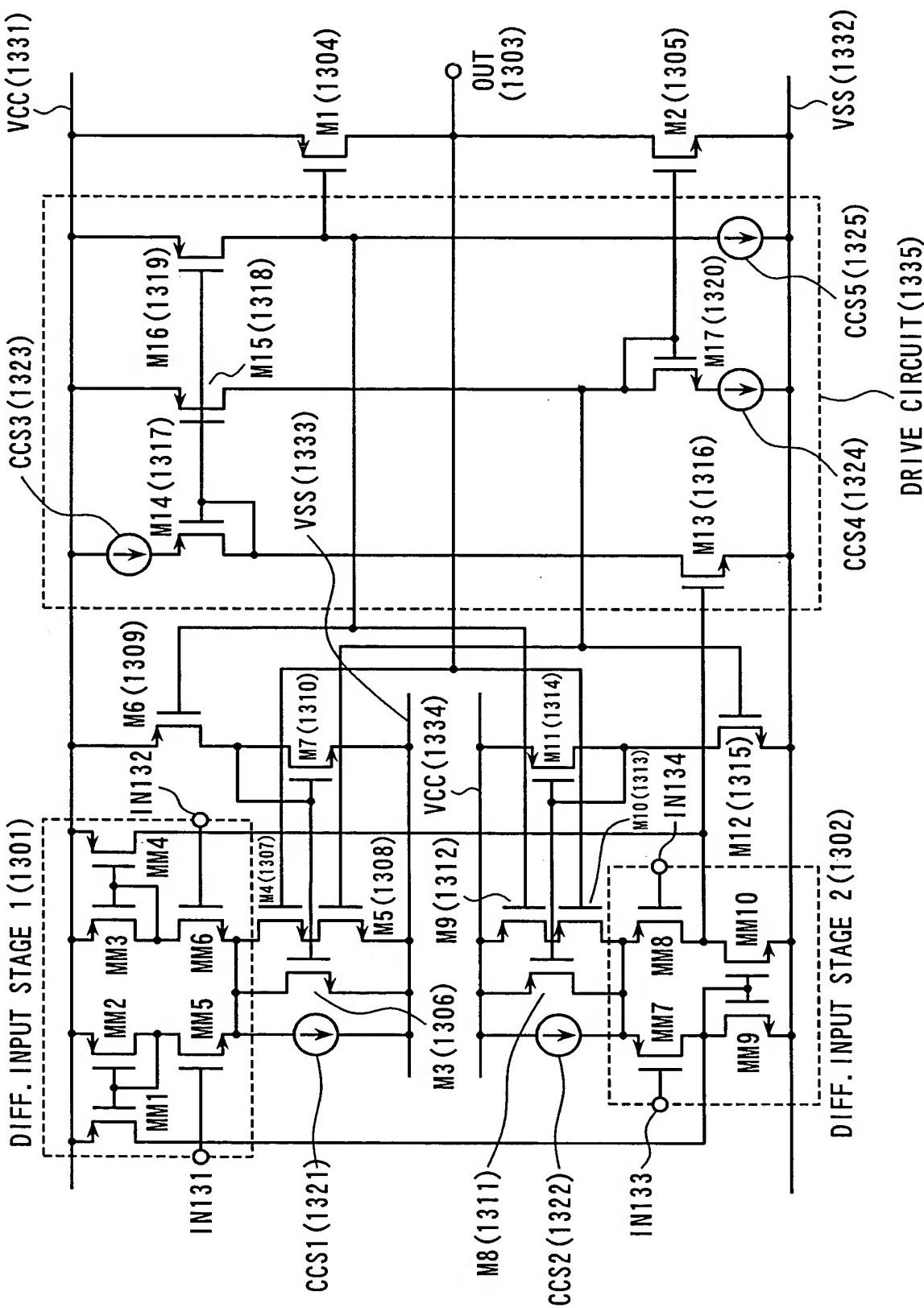


FIG. 14

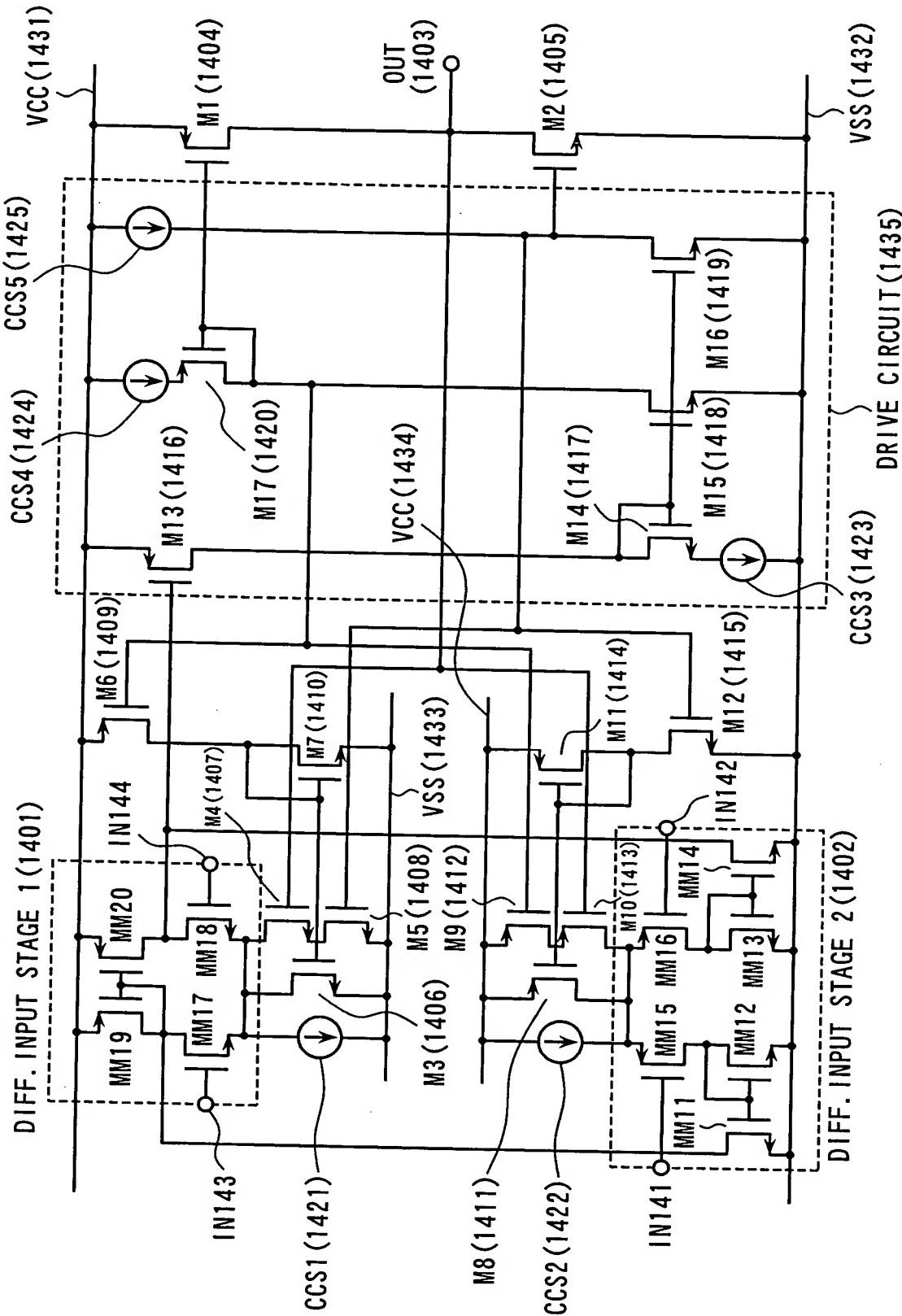


FIG. 15

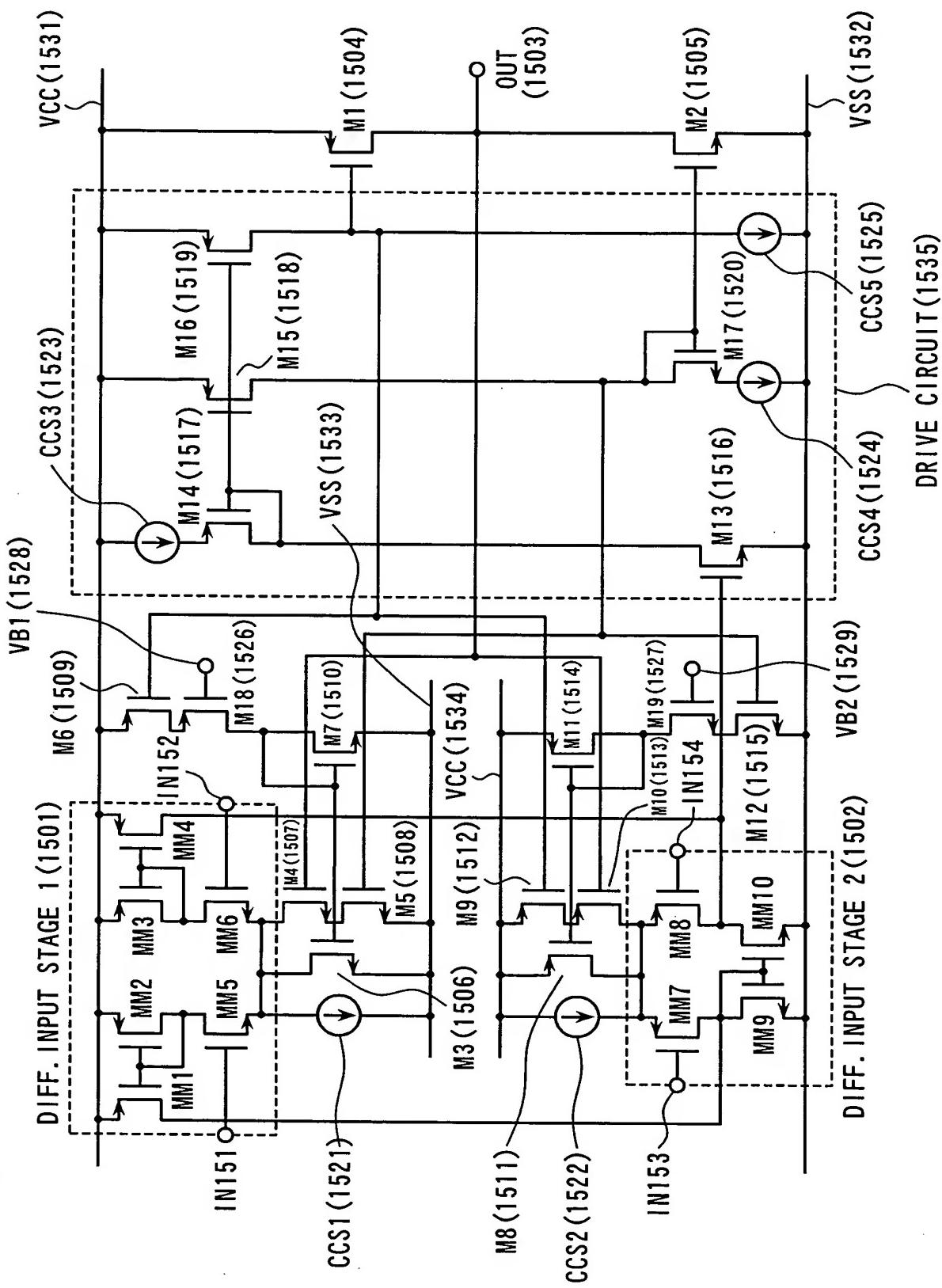


FIG. 16

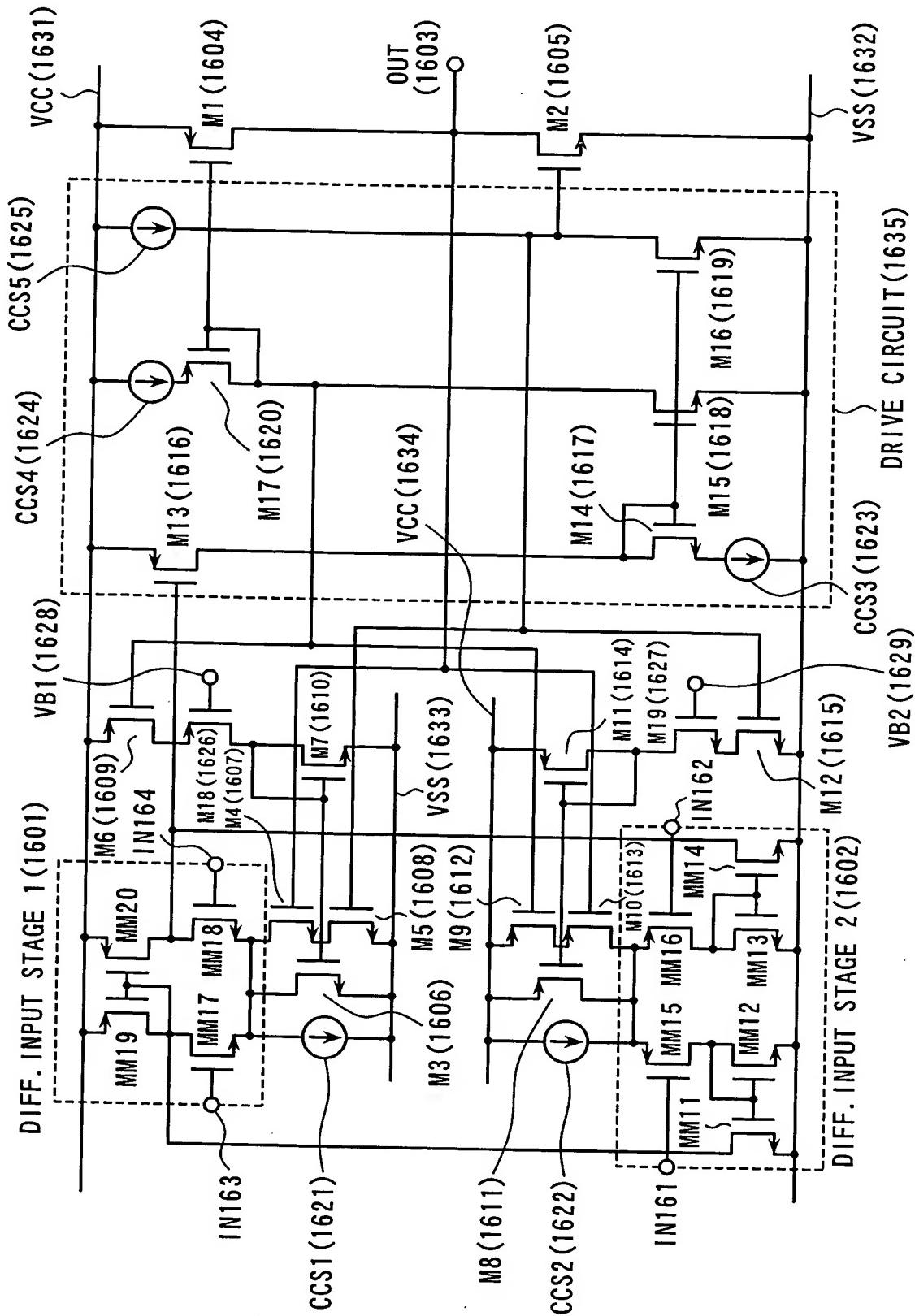


FIG. 17

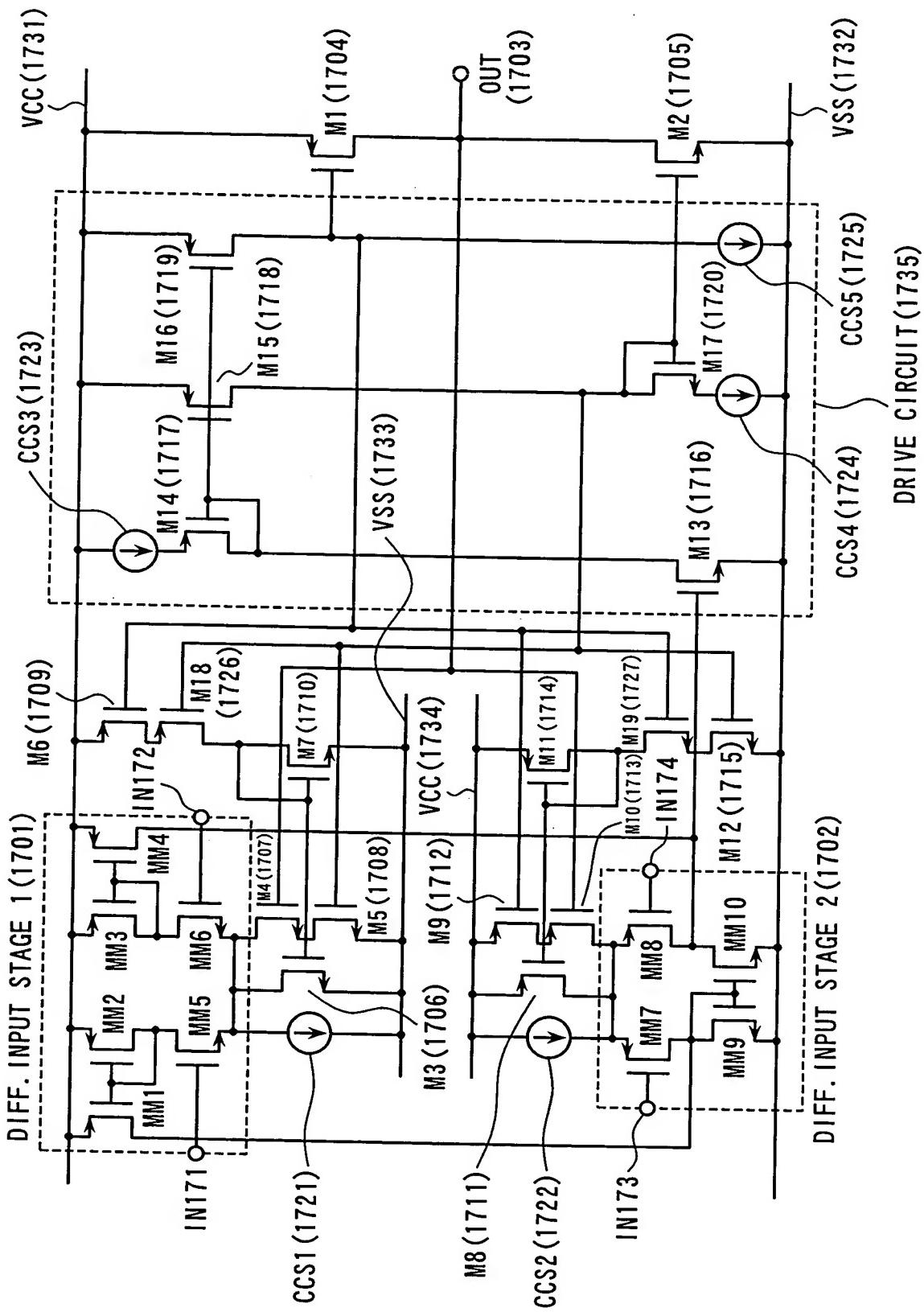


FIG. 18

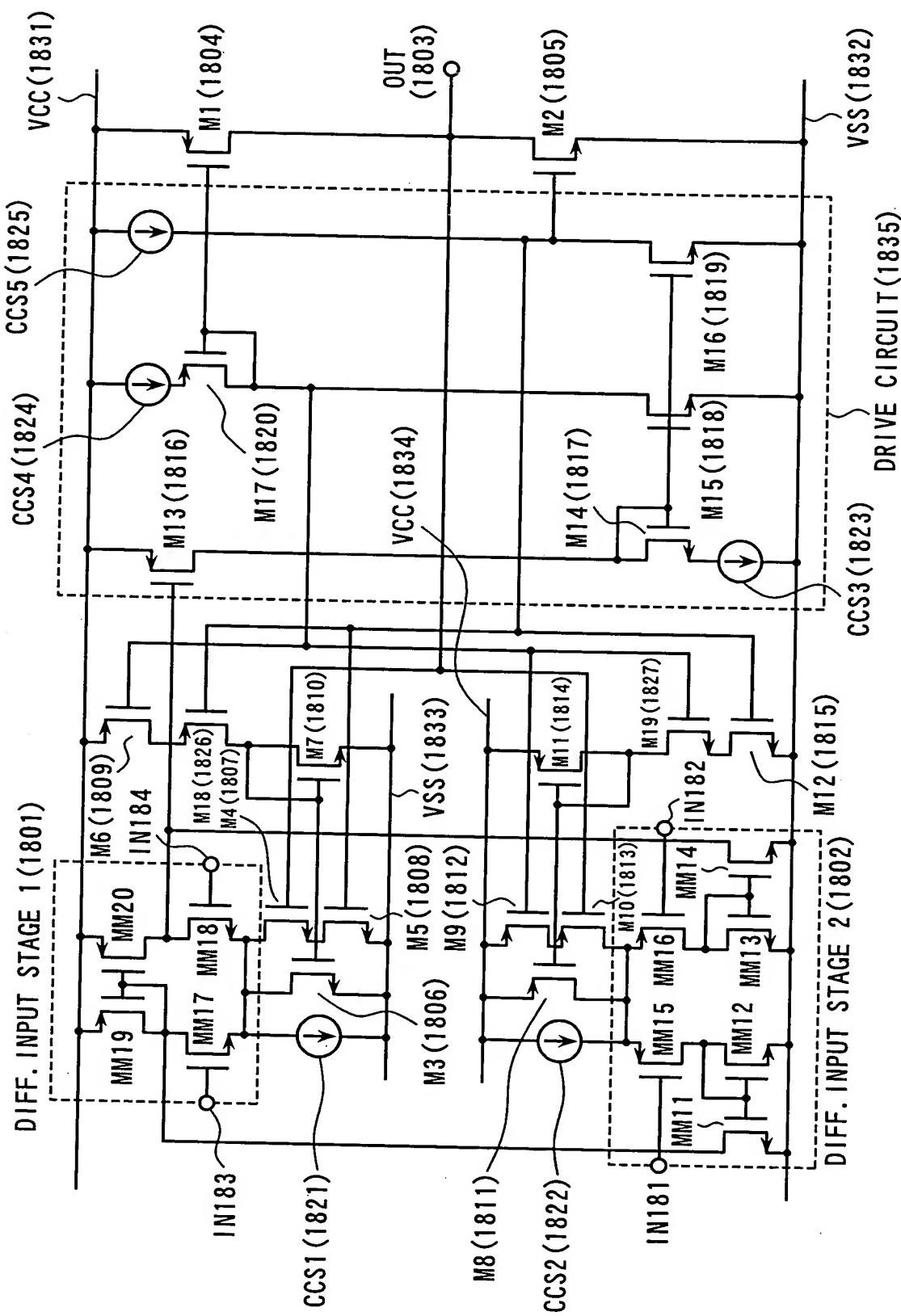


FIG. 19

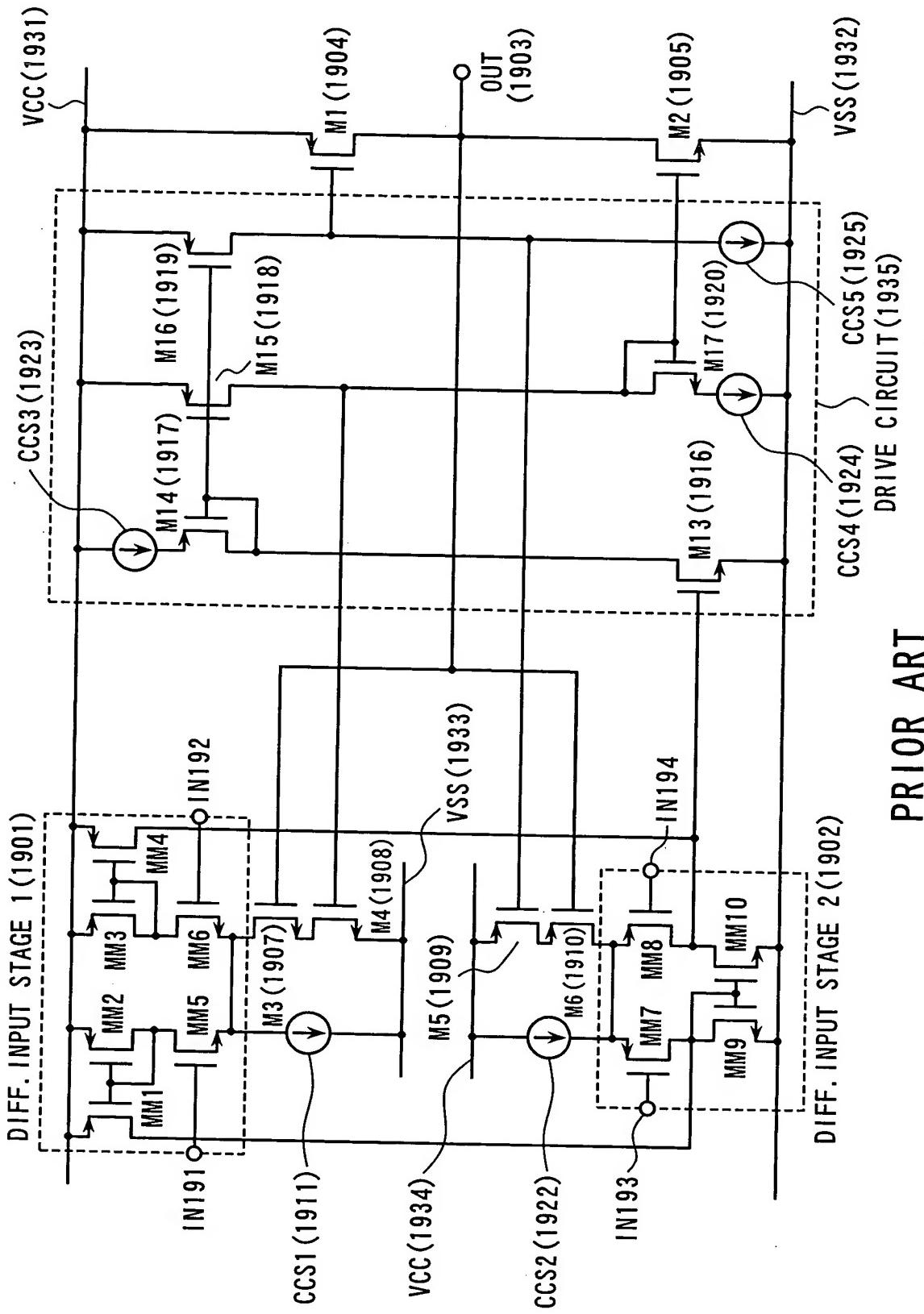


FIG. 20A

SIMULATION RESULT	STATIC CURRENT VALUE	AMPLITUDE (V)
INVENTION	23.202	VCC=4. 0V 3. 8-0. 2
PRIOR ART	20.786	VCC=4. 6V 4. 4-0. 2 VCC=5. 0V 4. 8-0. 2

FIG. 20B

SIMULATION RESULT	OPERATING CURRENT VALUE (μ A)	AMPLITUDE (V)
INVENTION	VCC=4. 0V, Ta=85°C, Vt=H	VCC=4. 6V, Ta=25°C, Vt=C, Vt=L
INVENTION	26.987	39.848
PRIOR ART	24.593	35.504

9.7% INCREASE 12.2% INCREASE 13.1% INCREASE

FIG. 20C

SIMULATION RESULT	SETTLING TIME (μ s)	AMPLITUDE (V)
UP or DW	SUT	SDT
INVENTION	0.840	0.870
PRIOR ART	1.490	1.570

43% DECREASE 45% DECREASE 30% DECREASE 32% DECREASE 20% DECREASE

FIG. 21

